UNITED STATES PATENT **OFFICE**

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FINGER GUARD FOR SWINGING DOORS

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6 Claims. (Cl. 20-16)

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The principal objects of this invention are to provide a device which is reliable in operation, which is of simple design and construction and which may readily be applied to the jamb of a door regardless of whether the door swings inwardly or outwardly, or whether it be hinged at one edge or the other, and to provide a device

which does not detract from the appearance of the doorway and which can be economically manufactured. Further objects relate to features of construc-

tion and will be apparent from a consideration

of the following description and accompanying

drawings, wherein: Fig. 1 is a perspective view of what is now con- 15 sidered the preferred form of the invention;

Fig. 2 is an enlarged cross-section illustrating the manner in which the device is applied to a door jamb;

Fig. 3 is a view similar to Fig. 2, but showing 20 the door in closed position:

Fig. 4 is a perspective view of a closure strip for the hinge cut-out; and

Fig. 5 is a view similar to Fig. 2 but showing a modification.

The device herein shown for the purpose of illustration comprises an elongate strip I of material such as sheet metal, extruded plastic material or the like, preferably of generally L-shaped cross-section to provide a shorter leg 2 and a 30longer leg 3, the latter being approximately the width of the door jamb (or thickness of the door) to which it is to be applied, whereas the shorter leg 2 approximates the depth of the jamb or recess. The shorter leg 2 is integral with a resilient U-shaped section 4, one leg of which is juxtaposed to a doorway, as shown in Figs. 2 and 3, and this section is integral with a relatively resilient scroll or tubular member 5 of elongate cross-section the size and shape which is such as to obstruct ready access to the door jamb. The inner edge 6 of the tubular member is bent so that it projects into the hinge section 4, thus cooperating with the latter to enhance the resiliency of the parts.

As shown more clearly in Fig. 2, the inner face of the tubular member 5 is inwardly off-set relative to the leg 2 so that it is preferably approximately tangential to the arc defined by the swing of the door, it being understood that the 50inner curved surface may intersect said arc so long as it does not interfere with the closing of the door, or it may be slightly spaced from said arc provided it does not present a gap of

inafter explained. The edge of the longer leg 3 is also integral with a semi-cylindrical extension section 8 which has a size and shape sufficient to block the gap at the hinged edge of the door, as shown in Fig. 2.

The strip i, whether fabricated from sheet metal or formed from extruded plastic material may be produced in lengths corresponding to the height of the doors with which they are to be 10 used, e. g., 6'-6", 6'-8", 7'-0", etc.; but a shorter length may be used where it is desired to afford protection against injury to a child. Prior to application to a door, the smaller scroll 8 may be cut away as indicated at 10 to accommodate the hinges H of the door D and when thus prepared the device may be readily applied to the jamb of the door as shown in Fig. 2, without removing the door from the hinges H. Nails, screws or other fastening elements may be employed to anchor the strip I in the jamb J of the door, and to this end the leg 3 may be formed with spaced perforations 12 to receive such fastening ele-

As herein shown the door D is hinged on the 25 left hand edge (Fig. 2) and opens outwardly, but should the door be hinged on the right hand side to swing outwardly, then the strip I would simply be inverted; if the door were hinged on the right hand side to swing inwardly then the strip would be reversed or rotated 180°; and if hinged on the left hand side to swing inwardly, the strip would be reversed or rotated 180° in the opposite direction. Hence, it does not matter how the door is hinged.

Where the strips I are prefabricated to fit conventional doors, the cut-away portions 10 may be formed at specified distances from the ends, and in such cases the gap is sufficiently large to accommodate different size hinges. In order to close the gap between the upper and lower edges of the hinge and the corresponding edges of the cut-away 10, I provide semi-cylindrical scrolls 15 formed with longitudinally extending slots 16 (Fig. 1) which receive self-tapping screws 18 to clamp the scrolls 15 in adjusted position against the main scroll or section 8.

Where the device is to be applied only to the lower part of a door jamb for the protection of a child, a three to four foot length will usually suffice; and where such a strip must be reversed in order to fit the jamb properly, then the cutaway 10 should be replaced. To this end I provide a scroll 20 one longitudinal edge of which is folded over as shown at 2! (Fig. 4) so as to snugly ema width which would impair its function as here- 55 brace the section 8 to bridge the gap, the op-